



# Blast 2 Sequences results

PubMed

Entrez

BLAST

OMIM

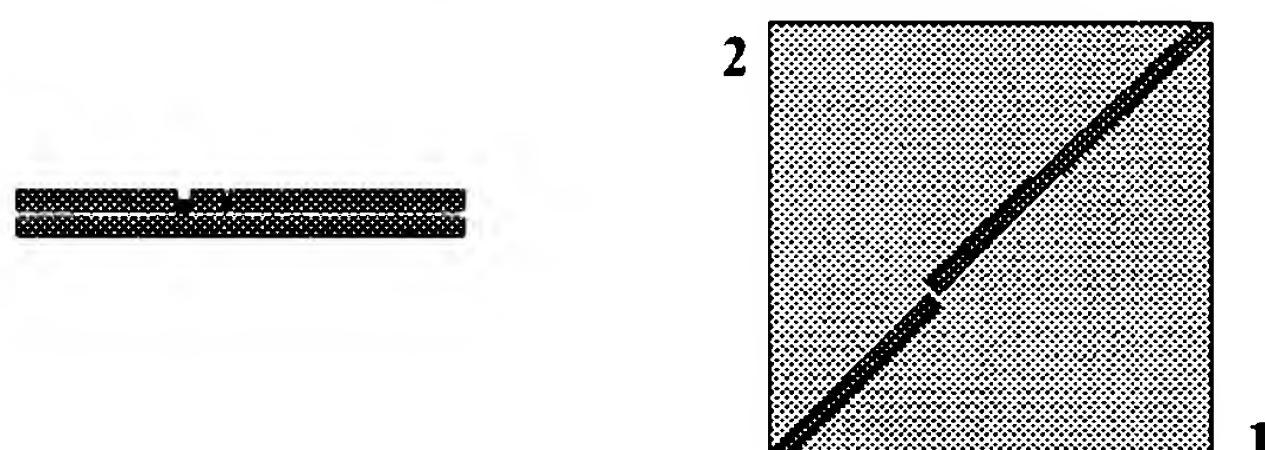
Taxonomy

Structure

## BLAST 2 SEQUENCES RESULTS VERSION BLASTP 2.2.6 [Apr-09-2003]

Matrix BLOSUM62 ☐ gap open: 11 gap extension: 1  
 x\_dropoff: 50 expect: 10.0 wordsize: 3 Filter ☐ Align

**Sequence 1** gi 18203501 Neurokinin B precursor (NKB) (Neuromedin K) (ZNEUROK1). **Length** 121 (1 .. 121)  
**Sequence 2** gi 163590 preprotachykinin B **Length** 126 (1 .. 126)



NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

Score = 163 bits (412), Expect = 8e-40  
 Identities = 83/126 (65%), Positives = 98/126 (76%), Gaps = 5/126 (3%)

```

Query: 1  MRIMLLFTAILAFSLAQSFQAVCKEPQEEVPPGGGRSKRDPDLYQL----LQRLFKSHS- 55
          MR  LLF  ILA S A+S GAVC+E QE+VVPGGG SK+D +LYQL  L+RL+ S
Sbjct: 1  MRSTLLFAVILALSSARSLSGAVCEESQEQQVPPGGGHSKKDSNLYQLPPSLLRRLYDSRVV 60

Query: 56  SLEGLLKALSQASTDPKESTSPEKRDMDHDFVGLMGKRSVQPDSPDQENVPSFGILK 115
          SL+GLLK LS+AS PKES P+KRDMDHDFVGLMGKR++QPD+P D+NQEN+PSFG K
Sbjct: 61  SLDGLLKMLSKASVGPKESTPLPQKRDMDHDFVGLMGKRNLQPDTPVDINQENIPSGFTFK 120

Query: 116 YPPRAE 121
          YPP E
Sbjct: 121 YPPSVE 126
  
```

CPU time: 0.02 user secs. 0.01 sys. secs 0.03 total secs.

Lambda K H  
 0.316 0.135 0.382

Gapped  
 Lambda K H  
 0.267 0.0410 0.140

Matrix: BLOSUM62  
 Gap Penalties: Existence: 11, Extension: 1  
 Number of Hits to DB: 171  
 Number of Sequences: 0  
 Number of extensions: 8  
 Number of successful extensions: 2  
 Number of sequences better than 10.0: 1

Number of HSP's better than 10.0 without gapping: 1  
Number of HSP's successfully gapped in prelim test: 0  
Number of HSP's that attempted gapping in prelim test: 0  
Number of HSP's gapped (non-prelim): 1  
length of query: 121  
length of database: 503,866,891  
effective HSP length: 97  
effective length of query: 24  
effective length of database: 503,866,794  
effective search space: 12092803056  
effective search space used: 12092803056  
T: 9  
A: 40  
X1: 16 ( 7.3 bits)  
X2: 129 (49.7 bits)  
X3: 129 (49.7 bits)  
S1: 41 (21.6 bits)  
S2: 67 (30.4 bits)

14/11/2003

=> d his

(FILE 'HOME' ENTERED AT 15:21:54 ON 14 NOV 2003)

FILE 'CAPLUS, BIOSIS, SCISEARCH, MEDLINE' ENTERED AT 15:22:21 ON 14 NOV 2003

L1	3780 S PREPROTACHYKININ(W)B OR NEUROKININ(W)B OR NKB OR NEUROMEDIN(W
L2	2222 S L1 AND TACHYKININ
L3	60 S L2 AND NEUROTRANSMISSION
L4	92 S L2 AND (ANTIBODIES OR ANTIBODY OR IMMUNOGLOBULIN?)
L5	49 DUP REM L4 (43 DUPLICATES REMOVED)
L6	33 S L5 AND PY<=1997

=>

L Number	Hits	Search Text	DB	Time stamp
1	13	preprotachykinin adj b	USPAT; US-PGPUB; EPO; DERWENT	2003/11/14 15:25
2	32	ruben-s\$.IN. and rosen-c\$.IN. and li-y\$.IN. and fischer-c\$.IN.	USPAT; US-PGPUB; EPO; DERWENT	2003/11/14 15:26
-	1	5985606.PN.	USPAT; US-PGPUB	2003/11/14 15:21
-	1	6448230.PN.	USPAT; US-PGPUB	2003/11/13 12:04
-	1	6008194.PN.	USPAT; US-PGPUB	2003/11/13 12:57
-	13	preprotachykinin adj b	USPAT; US-PGPUB; EPO; DERWENT	2003/11/13 12:58
-	2	hillman-jennifer\$.IN. and preprotachykinin	USPAT; US-PGPUB	2003/11/14 15:01